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Data Engineering, 1991. Proceedings. Seventh International Conference on , 8-11 June 1991

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 Hasan M. Jamil
ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data June 1999
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 Dan Grossman , Greg Morrisett , Trevor Jim , Michael Hicks , Yanling Wang , James Cheney
ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2002 Conference on Programming language design and implementation May 2002
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Cyclone is a type-safe programming language derived from C. The primary design goal of Cyclone is to let programmers control data representation and memory management without sacrificing type-safety. In this paper, we focus on the region-based memory management of Cyclone and its static typing discipline. The design incorporates several advancements, including support for region subtyping and a coherent integration with stack allocation and a garbage collector. To support separate compilation, C ...

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 Eugeniusz Eberbach
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 Leo Bachmair , Harald Ganzinger
Journal of the ACM (JACM) November 1998
Volume 45 Issue 6
We propose inference systems for binary relations that satisfy composition laws such as transitivity. Our inference mechanisms are based on standard techniques from term rewriting and represent a refinement of chaining methods as they are used in the context of resolution-type theorem proving. We establish the refutational completeness of these calculi and prove that our methods are compatible with the usual simplification techniques employed in refutational theorem provers, such as subsump ...

5 Finding patterns common to a set of strings (Extended Abstract) 80%
 Dana Angluin
Proceedings of the eleventh annual ACM symposium on Theory of computing April 1979
We motivate, formalize, and study a computational problem in concrete inductive inference. A “pattern” is defined to be a concatenation of constants and variables, and the language of a pattern is defined to be the set of strings obtained by substituting constant strings for the variables. The problem we consider is, given a set of strings, find a minimal pattern language containing this set. This problem is shown to be effectively solvable in the general case and to lead to cor ...

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 Dana Angluin , Carl H. Smith
ACM Computing Surveys (CSUR) September 1983
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8 The partition model: a deductive database model 80%
 Nicolas Spyros
ACM Transactions on Database Systems (TODS) March 1987
Volume 12 Issue 1
We present a new database model in which each attribute is modeled by a family of disjoint subsets of an underlying population of objects. Such a family is called a partitioning, and the set of all partitionings is turned into a lattice by appropriately defining product and sum. A database is seen as a function from a sublattice into the lattice of partitionings. The model combines the following features: (1) syntactic simplicity (essentially that of the relational model), < ...

9 Real-time reasoning with PROLOG

77%

 Chunsik Yi , Steven Graham**Proceedings of the 1990 ACM SIGSMALL/PC symposium on Small systems February 1990**

In this paper, we present a description of a Prolog implementation of a system (RTR) for "real-time reasoning", similar to those discussed by Perlis (see [3] and [6]). The reasoning to be performed by the system is "real-time" in two different senses. First, reasoning is considered to be a continuing process rather than an isolated calculation of the consequences of an axiom set, with such a process being analogous to that required to create a computer or robotic sys ...

10 Decision tree reduction

77%

 J. R. B. Cockett , J. A. Herrera**Journal of the ACM (JACM) October 1990**

Volume 37 Issue 4

The reduction algorithm is a technique for improving a decision tree in the absence of a precise cost criterion. The result of applying the algorithm is an irreducible tree that is no less efficient than the original, and may be more efficient. Irreducible trees arise in discrete decision theory as an algebraic form for decision trees. This form has significant computational properties. In fact, every irreducible is optimal with respect to some expected testing cost criterion and is stric ...

11 Presentation

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 **Proceedings of the 1980 workshop on Data abstraction, databases and conceptual modeling June 1980**

Presentation is intended to encompass notations and languages for expressing models. This session will focus on the linguistic and notational choices made in particular approaches. Emphasis will be placed on common ideas. For example, there have been some assertions from proponents of the predicate calculus that it is a notation that is capable of expressing essentially all the interesting and important concepts that are encountered in other notations. Emphasis will also be placed on why th ...

12 Coercion and type inference

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 John C. Mitchell**Proceedings of the 11th ACM SIGACT-SIGPLAN symposium on Principles of programming languages January 1984**

A simple semantic model of automatic coercion is proposed. This model is used to explain four rules for inferring polymorphic types and providing automatic coercions between types. With the addition of a fifth rule, the rules become semantically complete but the set of types associated with an expression may be undecidable. An efficient type checking algorithm based on the first four rules is presented. The algorithm is guaranteed to find a type whenever a type can be deduced using the four ...

13 Cyc: toward programs with common sense

77%

 Douglas B. Lenat , R. V. Guha , Karen Pittman , Dexter Pratt , Mary Shepherd
Communications of the ACM August 1990

Volume 33 Issue 8

Cyc is a bold attempt to assemble a massive knowledge base (on the order of 108 axioms) spanning human consensus knowledge. This article examines the need for such an undertaking and reviews the authos' efforts over the past five years to begin its construction. The methodology and history of the project are briefly discussed, followed by a more developed treatment of the current state of the representation language used (epistemological level), techniques for efficient ...

14 Relational database behavior: utilizing relational discrete event systems and models 77%

 Z. M. Kedem , A. Tuzhilin

Proceedings of the eighth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems March 1989

Behavior of relational databases is studied within the framework of Relational Discrete Event Systems (RDE-Ses) and Models (RDEMs). Production system and recurrence equation RDEMs are introduced, and their expressive powers are compared. Non-deterministic behavior is defined for both RDEMs and the expressive power of deterministic and non-deterministic production rule programs is also compared. This comparison shows that non-determinism increases expressive ...

15 Delegation logic: A logic-based approach to distributed authorization 77%

 Ninghui Li , Benjamin N. Grosof , Joan Feigenbaum

ACM Transactions on Information and System Security (TISSEC) February 2003

Volume 6 Issue 1

We address the problem of authorization in large-scale, open, distributed systems. Authorization decisions are needed in electronic commerce, mobile-code execution, remote resource sharing, privacy protection, and many other applications. We adopt the trust-management approach, in which "authorization" is viewed as a "*proof-of-compliance*" problem: Does a set of credentials prove that a request complies with a policy? We develop a logic-based language, called *Delegation Logic* (DL), t ...

16 Spatio-temporal data handling: Enhancing GISs for spatio-temporal reasoning 77%

 A. Raffaetà , F. Turini , C. Renso

Proceedings of the tenth ACM international symposium on Advances in geographic information systems November 2002

We present a system which provides geographical information systems (GISs) with enhanced capabilities for supporting spatio-temporal reasoning. On top of a commercial GIS we build a software layer supplying the user with a declarative spatio-temporal interaction with the underlying GIS. Declarative spatio-temporal reasoning is supported by the language MuTACLP, a constraint logic based knowledge representation language that offers facilities for modeling and handling spatio-temporal information, ...

17 Five paradigm shifts in programming language design and their realization in Viron, a dataflow programming environment 77%

 Vaughan Pratt

Proceedings of the 10th ACM SIGACT-SIGPLAN symposium on Principles of programming languages January 1983

We describe five paradigm shifts in programming language design, some old and some relatively new, namely Effect to Entity, Serial to Parallel, Partition Types to Predicate Types,

Computable to Definable, and Syntactic Consistency to Semantic Consistency. We argue for the adoption of each. We exhibit a programming language, Viron, that capitalizes on these shifts.

18 A functional approach to integrating database and expert systems

77%

 Tore Risch , René Reboh , Peter E. Hart , Richard O. Duda

Communications of the ACM December 1988

Volume 31 Issue 12

A new system architecture shares certain characteristics with database systems, expert systems, functional programming languages, and spreadsheet systems, but is very different from any of these.

19 Generating interesting scenarios from system descriptions

77%

 Kaizhi Yue

Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 June 1988

A formal system specification is often written declaratively, in terms of the properties of the system components. This makes the system description modular and concise. However, this does not make the procedural aspects of the system easily understandable. Here arises the need for automatically generating interesting behavior patterns, specifically, scenarios. This paper is a preliminary report of our research in generating interesting scenarios. We define sever ...

20 Parallel execution of prolog programs: a survey

77%

 Gopal Gupta , Enrico Pontelli , Khayri A.M. Ali , Mats Carlsson , Manuel V. Hermenegildo

ACM Transactions on Programming Languages and Systems (TOPLAS) July 2001

Volume 23 Issue 4

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computatio ...

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